マルチモーダル音声コミュニケーションの発達

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1999 Fiscal Year Final Research Report Summary

Development in auditory-visual speech perception

Research Project

Project/Area Number

10610070

Research Category

Grant-in-Aid for Scientific Research (C)

Allocation Type

Single-year Grants

Section

一般

Research Field

実験系心理学

Research Institution

Kanazawa University

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Project Period (FY)

1998 – 1999

Keywords

auditory-visual / audiovisual speech perception / audiovisual integration / McGurk effect / development / 読唇 / 視聴覚統合

Research Abstract

Inter-sensory integration has been investigated especially in terms of the nature-nurture problem. The present study examined developmental changes in auditory-visual integration in speech perception including the McGurk effect. The McGurk effect is an audiovisual illusion showing that hearing speech is influenced by conflicting visual lip-read information.
The subjects Were 3-year-old, 7-year-old, 11-year-old, and 20-year-old native speakers of Japanese. Each age group included 10 subjects. Stimuli were created from/ba/and/da/spoken by a Japanese female talker. Videotaped syllables were edited, resulting in audiovisually conflicting stimuli (audio/ba/, video/da/, and vice versa) as well as audiovisually matching stimuli (audio/ba/, video/ba/). In addition to original intact stimuli, degraded stimuli were prepared. The degraded auditory stimuli were created by lowpass filtering with a cut-off frequency of 730 kHz, the degraded visual stimuli were obtained by mosaic effect at and around …▾ More

Research Products (12 results)

All Other

All Publications

[Publications] 積山 薫: "雑音下の視聴覚音声知覚—調音位置による違い—"電子情報通信学会技術研究報告. SP99-51. 1-8 (1999)

[Publications] 林康子、積山薫: "音素カテゴリーの発達—劣化した音声による検討—"電子情報通信学会技術研究報告. SP99-44. 1-8 (1999)

[Publications] 積山薫・L.D.ブライダ、D.A.ディックス: "単一モダリティ条件からのマガーク効果の予測"日本音響学会聴覚研究会資料. H-98-94. 1-8 (1998)

[Publications] Sekiyama, K.: "Face or voice? Determinant of compellingness to the McGurk effect"Proceedings of AVSP'98 (Burnham et al.(Eds.)). 33-36 (1998)

[Publications] Amano, J. & Sekiyama, K.: "The McGurk effect is influenced by the stimulus set size"Proceedings of AVSP'98 (Burnham et al.(Eds.)). 43-48 (1998)

[Publications] Braida, L. D., Sekiyama, K. & Dix, A.: "Integration of audiovisually compatible and incompatible consonants in identification experiments"Proceedings of AVSP'98 (Burnham et al.(Eds.)). 49-54 (1998)

[Publications] Sekiyama, K.: "Audiovisual speech perception under various signal-to-noise ratios : Asymmetry for different places of articulation. (in English)"Technical Report of The Institute of Electronics, Information, and Communication Engineers. SP99-51. 1-8 (1999)

[Publications] Hayashi, Y. & Sekiyama, K.: "Development of phonetic categories : A test with degraded speech. (in Japanese with English abstract)"Technical Report of The Institute of Electronics, Information, and Communication Engineers. SP99-44. 1-8 (1999)

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[Publications] Amano, J. & Sekiyama, K.: "The McGurk effect is influenced by the stimulus set size. (in English)"Proceedings of International Conference on Auditory-Visual Speech Processing '98 (Edited by Burnham, D. et al). 43-48 (1998)

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